

What is claimed is:

1. A mobile catalyst injection system comprising:
a transportable platform;
a catalyst reservoir coupled to the platform and adapted to be coupled to an fluid catalyst cracking unit; and
a flow control device coupled to an outlet of the reservoir and adapted to control the flow of catalyst through the outlet port.
2. The system of claim 1, wherein the platform is a trailer.
3. The system of claim 1, wherein the platform is a container.
4. The system of claim 1, wherein the platform is a railroad car.
5. The system of claim 1, wherein the platform is a pallet.
6. The system of claim 1, wherein the platform is a barge.
7. The system of claim 1 further comprising:
a generator coupled to the platform.
8. The system of claim 1 further comprising:
a controller coupled to the platform and flow control device for controlling the catalyst dispensed from the catalyst reservoir.
9. The system of claim 1 further comprising:
a pressure control system coupled to the platform and the catalyst reservoir for controlling pressure with in the catalyst reservoir.
10. The system of claim 1, wherein the catalyst reservoir is movable relative to the platform.

11. The system of claim 1 further comprising a plurality of load cells disposed between the catalyst reservoir and the platform.
12. The system of claim 1 further comprising sensor adapted to detect a metric indicative of catalyst dispensed from the catalyst reservoir.
13. The system of claim 1, wherein the catalyst reservoir further comprises:
a plurality of compartments; and
a plenum disposed in the catalyst reservoir and coupling the compartments.
14. The system of claim 13, wherein at least two of the plurality of compartments are substantially equal in volume.
15. The system of claim 13, wherein at least two of the plurality of compartments are substantially unequal in volume.
16. The system of claim 13, wherein at least one of the plurality of compartments has an adjustable volume.
17. The system of claim 1 further comprising a second catalyst reservoir coupled to the platform and adapted to be coupled to the fluid catalyst cracking unit.
18. A mobile catalyst injection system comprising:
a trailer;
a catalyst reservoir coupled to the trailer and adapted to be coupled to an fluid catalyst cracking unit;
a pressure control system coupled to the trailer and catalyst reservoir;
a generator coupled to the pressure control system; and
a flow control device coupled to an outlet of the reservoir and adapted to control the flow of catalyst through the outlet port.

19. The system of claim 18, wherein the catalyst reservoir further comprises:
a plurality of compartments; and
a plenum disposed in the catalyst reservoir and coupling the compartments.
20. The system of claim 19, wherein at least one of the plurality of compartments has an adjustable volume.
21. The system of claim 18 further comprising:
a second catalyst reservoir coupled to the platform and pressure control system.
22. A mobile catalyst injection system comprising:
a container;
a catalyst reservoir coupled to the container and adapted to be coupled to an fluid catalyst cracking unit;
a pressure control system coupled to the trailer and catalyst reservoir;
a generator coupled to the pressure control system; and
a flow control device coupled to an outlet of the reservoir and adapted to control the flow of catalyst through the outlet port.
23. The system of claim 22, wherein the catalyst reservoir further comprises:
a plurality of compartments; and
a plenum disposed in the catalyst reservoir and coupling the compartments.
24. The system of claim 23, wherein at least one of the plurality of compartments has an adjustable volume.
25. The system of claim 22 further comprising:
a second catalyst reservoir coupled to the platform and pressure control system.

26. A method for process control in a fluid catalytic cracking system, comprising:

processing oil in a fluid catalytic cracking system having a one or more hard piped catalytic injection systems;

transporting a mobile catalyst injection to the fluid catalytic cracking system;

coupling the mobile catalyst injection to the fluid catalytic cracking system; and

injecting catalyst from the mobile catalyst injection into the fluid catalytic cracking system.

27. The method of claim 26, wherein the step of transporting further comprises moving the mobile catalyst injection system by at least one of road, land, sea or air.

28. The method of claim 26 further comprising:

identifying a need for a catalyst needed in addition to catalysts being dispensed by the one or more hard piped catalytic injection systems.

29. The method of claim 28, wherein the step of transporting is in response to the identified need.

30. The method of claim 29, wherein the step of injecting occurs within at least 1 hour after the completion of the transporting step.

31. The method of claim 26 further comprising:

storing catalyst in a first compartment of the injection system; and

storing catalyst in a second compartment of the injection system.

32. The method of claim 31 further comprising adjusting a ratio of volume between the first and second compartments.

33. The method of claim 31 further comprising pressurizing a plenum common to the first and second compartments.

34. The method of claim 31, wherein the step of injecting further comprises:
dispensing at least two catalysts simultaneously from the two respective compartments.

35. The method of claim 31, wherein the step of injecting further comprises:
dispensing at least two catalysts sequentially from the two respective compartments.